Use Attainability Analysis

for

WBID 1028 Callahan Creek

Submitted by Missouri Department of Natural Resources Staff

To Missouri Department of Natural Resources Water Protection Program

CEVECER

Field Data Sheets for Recreational Use Stream Surveys

2005 JUL -3 AMII: 42

Data Sheet A - Water Body Identification

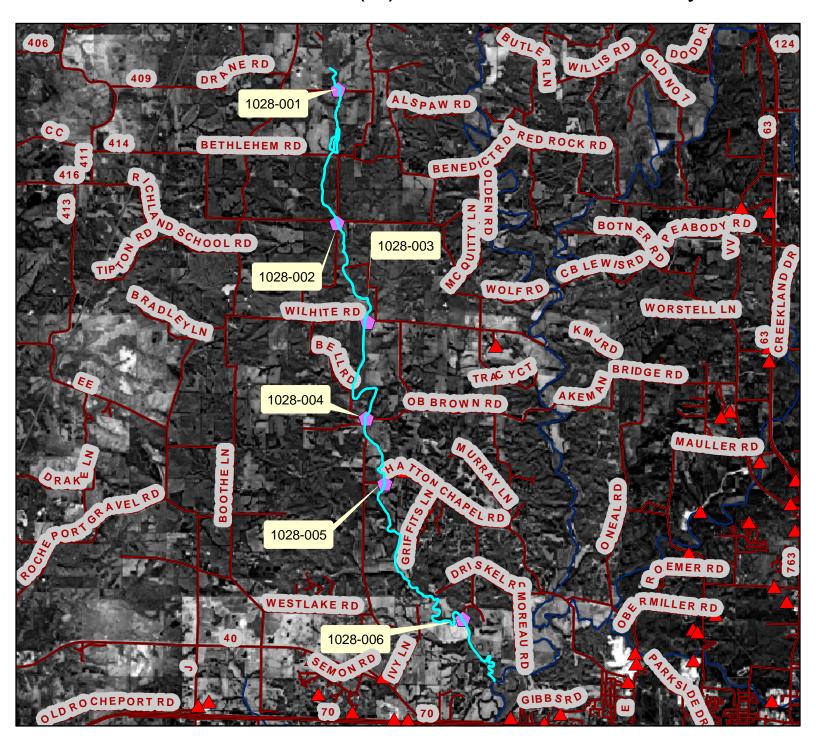
WATER PROJECTION PROGRAM

Water Body Name (from USGS 7.5' quad): Callahan Creek
8-digit HUC: 0300102
Missouri WBID #: 1028
County: Boone
Upstream Legal Description: Eastern Border of Sec. 23 T50N R14W
Downstream Legal Description: SE 1/4, NE 1/4 of Sec. 24 T49N R 14 W
Upstream Coordinates: UFM DO 39.11174 92.44601
Downstream Coordinates: 47700.39.02453 92.44098
Discharger Facility Name(s):
Discharger Permit Number(s):
Number of Sites Evaluated: 4
Name of Surveyor and Telephone Number: Tucker Fredrickson (573)526-4210
Organization: MDNR
Position: Environmental Specialist
the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA

...I,

Signed: Tucker	Fredicken	Date:	61	23/05	
				· 	

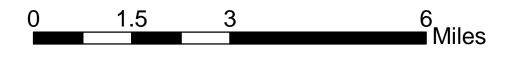
Callahan Creek (C) #1028 Boone County



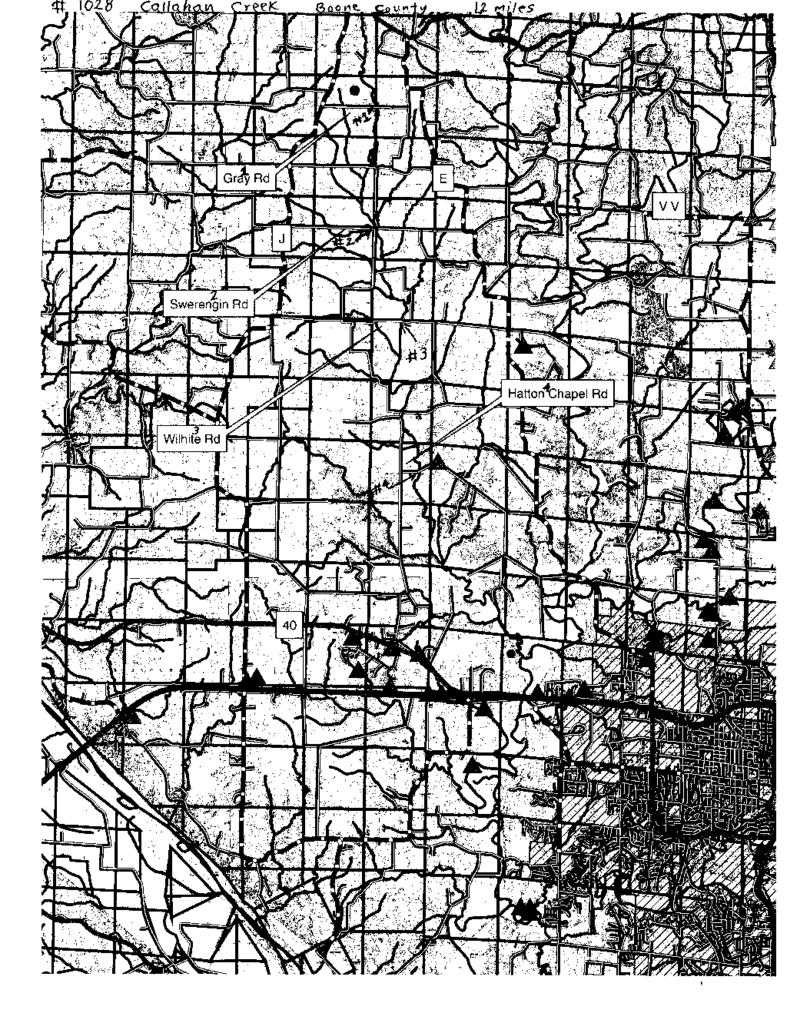


----- Roads

Classified Waterbodies







Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: \(128 - OI		Site Location D	escription: Gray Rnac	Crassina
7 Site GPS Coordinates:		44601		escription: Gray Roac	Bridge
Date & Time: 6	23/05	2:35	Facility Name:	Callahan Creel	
Personnel: Tuck	er Fredri		Permit Number:		mp. Range 80-91
Current Weather Condit		90°F	Weather Condit	·	rainfall
Photo Ids: Upstream;		vnstream:	32 Othe		
Uses Observed*:	No Flow		······································		
	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Воа	ating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fist	ung	None of the above	Other:
Describe: (include numb					,
Surrounding Condition					
		promote or im	pede recreational u		nce or unusual
Surrounding Condition items of interest.)	18*: (Mark all that p	promote or im	pede recreational u	ises. Attach photos of evider	
Surrounding Condition items of interest.) □ City/county parks	18*: (Mark all that p	promote or im	pede recreational unaservation lands	ses. Attach photos of eviden	nce or unusual Campgrounds
Surrounding Condition items of interest.) □ City/county parks □ Boating accesses	18*: (Mark all that p Playgrounds State parks Fence	promote or imp MDC con National	pede recreational unaservation lands	uses. Attach photos of eviden Urban areas Nature trails	nce or unusual Campgrounds
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign	18*: (Mark all that p Playgrounds State parks Fence	Promote or imp ☐ MDC con ☐ National ☐ Steep slo	pede recreational unaservation lands	uses. Attach photos of eviden Urban areas Nature trails	nce or unusual
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us	18*: (Mark all that p Playgrounds State parks Fence	promote or imp MDC con National Steep slo	pede recreational unaservation lands forests	Ses. Attach photos of evider Urban areas Nature trails Other: NA	Campgrounds

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Upstream Vie	ology: ew Physical	Dimensions:	νο ೬(° °	,		
□ Riffle Wie	dth (ft):	Length (ft):	Avg. Depti	ı (fi):	Max. Depth (ft):	
□ Run Wie	dth (ft):	Length (ft):	Avg. Depth	ı (ft):	Max. Depth (ft):	· <u> </u>
□ Pool Wie	dth (ft):	Length (ft):	Avg. Depth	n (ft):	Max. Depth (ft):	
☐ Flow Pre	sent?	es Mar No	Estimated (ft ^J /sec):		
Downstream	View Physic	cal Dimensions:				
	dth (ft):	Length (ft):	Avg. Depth	 n (ft):	Max. Depth (ft):	
□ Run Wie	dth (ft):	Length (ft):	Avg. Depth	ı (ft):	Max. Depth (ft):	
□ Pool Wie	dth (ft):	Length (ft):	Avg. Depth	ı (ft):	Max. Depth (ft):	· · · · · · · · · · · · · · · · · · ·
☐ Flow Pre	sent? 🗆 Y	es Ø No	Estimated ([ft³/sec):		
7.1.4.4.4.7				-		
Substrate*: (The		lld add up to 100%.) % Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
Aquatic Vegetat	nou*: (note a	mount of vegetation or	algal growth at the ass	sessment site)		
Water Characte	ristics*: (M	ark all that apply.)				
Water Characte	ristics*: (M.	ark all that apply.) e 🕒 Musky	□ Chemical	□ None	☐ Other:	
Water Characte Odor: Color:	eristics*: (M. Sewag	ark all that apply.) e	□ Chemical □ Gray	□ None	☐ Other:	
Water Characte Odor: Color: Bottom Deposit	eristics*: (M. Sewag Clear Sludge	ark all that apply.) The Musky Green Solids	☐ Chemical☐ Gray☐ Fine sediments	□ None □ Milky □ None	Other:	
Water Characte Odor: Color: Bottom Deposit Surface Deposit	cristics*: (M. Sewag Clear Sludge	ark all that apply.) The Musky Green Solids Scum	☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam	□ None □ Milky □ None □ None	Other:	
Color: Bottom Deposit Surface Deposit Comments: Plea This information is comprehensive under the comprehensive under the content of the c	eristics*: (M. Sewag Clear Sludge Cil Since attach addenot to be used erstanding of we catton use analyses.	ark all that apply.) The Musky Green Solids Soum ditional comments of a later conditions. Conservis but may point to control of the later conditions.	Chemical Gray Fine sediments Foam (including information a recreational use designmently, this information and the conditions that need further than the conditions that need further th	□ None □ Milky □ None □ None tion from integration but rathe on is not intende ther analysis or the second	Other: Other: Other: ris to provide a more ed to directly influence a hat effect another use.	1
Water Characte Odor: Color: Bottom Deposit Surface Deposit Comments: Plea This information is comprehensive under decision on the recreation. I, the undersign datasheet is true	eristics*: (M. Sewag Clear Sludge Coil see attach ad not to be used erstanding of we cation use analy ed, hereby a	ark all that apply.) The Musky Green Solids Soum ditional comments of a later conditions. Conservations but may point to contact the best of ate.	Chemical Gray Fine sediments Foam (including information arecreational use designmently, this information of my knowledge,	□ None □ Milky □ None □ None tion from integration but rathe on is not intende ther analysis or that all infor	Other: Other: Other: rviews) to this form is to provide a more ed to directly influence a hat effect another use.	n this UAA
Water Characte Odor: Color: Bottom Deposit Surface Deposit Comments: Plea This information is comprehensive under decision on the recreation. I, the undersign datasheet is true	eristics*: (M. Sewag Clear Sludge Coil see attach ad not to be used erstanding of we cation use analy ed, hereby a	ark all that apply.) The Musky Green Solids Soum ditional comments of a later conditions. Conservations but may point to contact the best of ate.	Chemical Gray Fine sediments Foam (including information arecreational use designmently, this information of my knowledge,	□ None □ Milky □ None □ None tion from integration but rathe on is not intende ther analysis or that all infor	Other: Other: Other: ris to provide a more ed to directly influence a hat effect another use.	n this UAA



1028_001_DS



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #:	<u>028-02</u>		Site Location Description: Bridge crossing				
Site GPS Coordinates:		2.45377	Site Location Description: Bridge crossing Swering in Road				
Date & Time: 6	23/05	2:50	Facility Name: Callahan Creek				
Personnel: Tuck	cr Fredric		Permit Number: H Temp Range 80-9				
Current Weather Condi-		95°F	Weather Condi		rainfall		
Photo Ids: Upstream:		wostream:	34 Othe		ramigit		
			<u> </u>				
es Observed*:		·- 	- · <u> </u>	· · · · · · · · · · · · · · · · · · ·			
☐ Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	☐ Bos	ating	□ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fist	ung	None of the above	C Other:		
		J (,	-documentation of evidence	or rectangular ages, c		
rounding Condition				uses. Attach photos of evide	<u>-</u>		
rounding Condition		promote or imp			<u>-</u>		
rounding Conditions of interest.)	IIS*: (Mark all that]	promote or imp	nede recreational t	uses. Attach photos of evide	nce or unusual □ Campgrounds		
rounding Conditions of interest.)	ns*: (Mark all that p	promote or imp	nede recreational t nservation lands forests	uses. Attach photos of evide: Urban areas Nature trails	nce or unusual		
rounding Conditions of interest.) City/county parks Boating accesses No trespass sign	Ins*: (Mark all that parks Playgrounds	promote or imp	nede recreational t nservation lands forests	uses. Attach photos of evide	nce or unusual □ Campgrounds		
rounding Conditions of interest.) City/county parks Boating accesses	Ins*: (Mark all that parks Playgrounds	promote or imp ☐ MDC cor ☐ National ☐ Steep slop	nede recreational t nservation lands forests	uses. Attach photos of evide: Urban areas Nature trails	nce or unusual □ Campgrounds		

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

- po 12 1-11	phology: <u> View P</u> hy	sical Di	mensions:						
□ Riffle	Width (fi):		Length (ft):		Avg. Depth	(ft):		ax. Depth (i	ft):
☐ Run	Width (ft):		Length (ft):		Avg. Depth		·· · · · · · · · · · · · · · · · · · ·	ax. Depth (
D Pool	Width (ft):	13	Length (ft):	35	Avg. Depth	(ft): O		x. Depth (<u>. </u>
☐ Flow	Present?	Ø Yes	□ No	<u></u>	Estimated (f				. 0.75
Downstre:	am View F	hvsical	Dimensions:						·····
☐ Riffle	Width (ft):	11/01041	Length (ft):		Avg. Depth	(0):	Me	ax. Depth (f	<u> </u>
□ Run	Width (ft):		Length (ft):		Avg. Depth			ex. Depth (f	<u> </u>
Ø Pool	Width (ft):	7	Length (ft):		Avg. Depth			x. Depth (f	
☐ Flow	Present?	À Yes	□ No	<u> </u>	Estimated (f		5	. Depui (i	t): . D
ubstrate*:	(These value Cobble		dd up to 100%.) Gravel	2 0 % Sand	4	2 % Silt	% M	ud/Clay	% Bedrock
Water Chara					look				
	S	: (Mark a Sewage	☐ Musky	□ Cher	.	A None		Other:	
Odor:		lear	□ Musky □ Green	□ Gray	,	☐ Milky	0 (Other:	
Odor: Color:	oosit: OS	lear liudge	☐ Musky	□ Gray	sediments	<u> </u>	0 (-	
Color: Bottom Dep Surface Dep Comments: P Comments: P Comprehensive undersion on the resistance on the resistance of the color of	Please attactor is not to be understanding eccreation use	clear cliudge Dil h addition was sole of water analysis to	☐ Musky ☐ Green ☐ Solids ☐ Scum Onal comments MinhowS ly for removal of conditions. Cons out may point to cons out the best	Gray Fine Foan Fo	sediments n g information at use design s information at need furth	Milky None None on from in ation but rain is not interer analysis on that all information in the content of the	nterviews) ther is to proposed to direct or that effect	Other: Other: Other: to this forvide a morestly influence another use	e a



1028_002_DS



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #:	028-03		Site Location D	escription: Bridge o	rossina		
Site GPS Coordinates:		2.44626	Withite Road				
i : : : : : : : : : : : : : : : : : : :	Ker Fredric		Facility Name: Callahan Creek				
Personnel:	123/05	3:10	Permit Number:				
Current Weather Condit		0°F	Weather Condit	ions for Past 7 days: No	rainfall		
Photo Ids: Upstream:	· 	nstream:	36 Othe		emp. Range 80-917		
					City Pasige Co III		
Uses Observed*:							
☐ Swimming	☐ Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	☐ Boa	ting	□ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish	ung	None of the above	□ Other:		
Describe: (include num)	er of individuals fee	reating, freque	ncy of use, photo-	-documentation of evidence	of recreational uses, etc.)		
Surrounding Condition				ses. Attach photos of eviden			
Surrounding Condition		promote or imp			nce or unusuai		
Surrounding Condition terns of interest.)	ns*: (Mark all that p	promote or imp	nede recreational v	ises. Attach photos of eviden			
Surrounding Condition terms of interest.)	ns*: (Mark all that p	promote or imp	nede recreational v nservation lands forests	uses. Attach photos of eviden	nce or unusuai		
Surrounding Condition terms of interest.) City/county parks Boating accesses No trespass sign	DS*: (Mark all that p Delaygrounds State parks Fence	oromote or imp	nede recreational v nservation lands forests	uses. Attach photos of eviden Urban areas Nature trails	nce or unusuai		
Surrounding Condition terms of interest.) City/county parks Boating accesses No trespass sign	DS*: (Mark all that p Delaygrounds State parks Fence	oromote or imp ☐ MDC cor ☐ National ☑ Steep slop	nede recreational v nservation lands forests	uses. Attach photos of eviden Urban areas Nature trails	nce or unusuai		
Surrounding Condition terms of interest.) City/county parks Boating accesses No trespass sign	DS*: (Mark all that p Playgrounds State parks Fence	oromote or imp ☐ MDC cor ☐ National ☑ Steep slop	nede recreational vaservation lands forests	uses. Attach photos of eviden Urban areas Nature trails Other:	Campgrounds		

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Upstream View Riffle Width (Run Width (Pool Width (Flow Present Downstream Vie Riffle Width (Run Width (Run Width (Flow Present Substrate*: (These v 40 % Cobble Aquatic Vegetation Water Characterist Odor:	(ft): (ft): (ft): 20 ? Of Yes (w Physical ft): (ft): 8 ? Of Yes values should a 1 20 % *: (note amou	Length (ft): Length (ft): Length (ft): No Dimensions: Length (ft): Length (ft): Length (ft): One Add up to 100%.) Gravel 2	4 <i>D</i>		(ft): (ft): (ft): (ft): (ft): (ft): (ft): % Si		Max. De Max. De Max. De Max. De Max. De Max. De	pth (ft): pth (ft): pth (ft): pth (ft):	2.5
Pool Width (Flow Present Downstream Vie Riffle Width (Run Width (Flow Present Substrate*: (These v 40 % Cobble Aquatic Vegetation	ff): 20 ? Of Yes w Physical ff): ff): % Yes ralues should a 1 20 % *: (note amount)	Length (ft): No Dimensions: Length (ft): Length (ft): Length (ft): Gravel 2	4 <i>D</i>	Avg. Depth (Avg. Depth (Avg. Depth (Avg. Depth (Estimated (fi	(ft): t ³ /sec): (ft): (ft): (ft): t ² /sec):	1.5	Max. De Max. De Max. De Max. De	pth (ft): pth (ft): pth (ft):	2.5
Downstream Vie Riffle Width (Run Width (Flow Present Substrate*: (These v O % Cobble	? Or Yes Ew Physical Eth): Eth): Status should a status sh	Dimensions: Length (ft): Length (ft): Length (ft): One Add up to 100%.) Gravel 2	4 <i>D</i>	Avg. Depth (Avg. Depth (Avg. Depth (Estimated (fi	(ft): (ft): (ft): (ft): (ft): //sec):	1.5	Max. De Max. De Max. De	pth (ft):	2.5
Downstream Vie Riffle Width (Run Width (Flow Present Substrate*: (These v 40 % Cobble Aquatic Vegetation	ew Physical (ft): (ft	Dimensions: Length (ft): Length (ft): Length (ft): One Modd up to 100%.) Gravel 2	. O % San	Avg. Depth (Avg. Depth (Avg. Depth (Estimated (fi	(ft): (ft): (ft): (ft): (ft): //sec):	1.5	Max. De	pth (ft): pth (ft):	2.5
Riffle Width (Run Width (Pool Width (Flow Present Substrate*: (These v 40 % Cobble Aquatic Vegetation	ft): ft): 8 2 Ves values should a 2 0 % *: (note amou	Length (ft): Length (ft): Length (ft): No add up to 100%.) Gravel 2	. O % San	Avg. Depth (Avg. Depth (Estimated (fi	(ft): (ft): //sec): % Si	lt 20	Max. De	pth (ft): pth (ft):	2.5
Riffle Width (Run Width (Pool Width (Flow Present Substrate*: (These v 40 % Cobble Aquatic Vegetation	ft): ft): 8 2 Ves values should a 2 0 % *: (note amou	Length (ft): Length (ft): Length (ft): No add up to 100%.) Gravel 2	. O % San	Avg. Depth (Avg. Depth (Estimated (fi	(ft): (ft): //sec): % Si	lt 20	Max. De	pth (ft): pth (ft):	2.5
E Pool Width (Flow Present Substrate*: (These v 40 % Cobble Aquatic Vegetation	ft): 8 ? (St Yes) ralues should a 20% *: (note amou	Length (ft): No add up to 100%.) Gravel 2	. O % San	Avg. Depth (Avg. Depth (Estimated (fi	(ft): (ft): //sec): % Si	lt 20	Max. De	pth (ft): pth (ft):	2.5
E Flow Present Substrate*: (These v 40 % Cobble Aquatic Vegetation	ralues should a 20 %	No add up to 100%.) Gravel 2	. O % San	Avg. Depth (Estimated (fi	(ft): r³/sec): % Si	lt 20	Max. De	pth (ft):	<u> </u>
Substrate*: (These v 40 % Cobble Aquatic Vegetation Water Characterist	*: (note amou	idd up to 100%.) Gravel 2	. O % San	Estimated (fi	³ /sec): % Si	lt 20			
40 % Cobble Aquatic Vegetation Water Characterist	*: (note amou	Gravel 2		ď	% Si		o % Mud/Cla	ıy	% Bedroci
	☐ Sewage	all that apply.)	□ Съ	emical	D Non	ıe.	[] Other:		
Color:	☐ Clear		□ Gra	ау	☐ Mill	ку	☐ Other:		
Bottom Deposit:	☐ Sludge	☐ Solids	\$\Fin	e sediments	□ Non	ı ė	Other:		
Surface Deposit:	□ Oil	□ Scum	□ Foa	am	Non	e	☐ Other:		
This information is not comprehensive understar ecision on the recreation, the undersigned, latasheet is true an	to be used soluting of water use analysis hereby affidaccurate.	ely for removal of conditions. Conse but may point to c rm to the best	a recreation equently, the conditions the of my kn	nal use design his information hat need furth nowledge, th	ation bu n is not i er analys hat all	t rather intended sis or tha	s to provide a to directly ini it effect anoth	more fluence er use.	a on this UAA
Signed: Jud Organization: MD	<i>y</i> ' _	, . 1		_	- 71	_ [.	_		



1028_003_DS



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	<u>028-04</u>		Site Location D	Site Location Description: Bridge crossing Hatton chapel Road				
Site GPS Coordinates:	39.02453 91	.44098						
		: 45	Facility Name:	Callahan Cr				
Personnel: Tuck	, ,		Permit Number:		<u> </u>			
Current Weather Conditi		90 F	Weather Condit	ions for Past 7 days: No	rainfall			
Photo Ids: Upstream:		ustream:	38 Othe		mp. Range 80-9			
								
es Observed*:		1			γ			
□ Swimming	☐ Skin diving	□ so	CUBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□ Be	pating	☐ Wading	☐ Rafting			
☐ Hunting	☐ Trapping	☐ Fi:	shing	None of the above	☐ Other:			
_	15*: (Mark all that p	promote or it	npede recreational	uses. Attach photos of evide	nce or unusual			
_	ns*: (Mark all that p		npede recreational	uses. Attach photos of evide	nce or unusual C Campgrounds			
ns of interest.)	<u> </u>		onservation lands	-				
ns of interest.)	☐ Playgrounds	□ MDC ¢	onservation lands	☐ Urban areas	☐ Campgrounds			
□ City/county parks □ Boating accesses □ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	□ MDC c	onservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds			
as of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC c ☐ Nations ☐ Steep sl	onservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds			
ns of interest.) City/county parks Boating accesses No trespass sign idence of Human Us	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC c ☐ Nationa ☐ Steep sl	onservation lands al forests	☐ Urban areas ☐ Nature trails ☑ Other: № A	☐ Campgrounds ☐ Stairs/walkway			

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

□ Run ⊅ Pool	Width (ft): Width (ft): Width (ft):		Length (ft): Length (ft): Length (ft):		Avg. Depth Avg. Depth		Max. Depth (ft):	
Pool	Width (ft):				Avg. Depth	(fr)-	Man Dinnet /Al.	
7		9	I anneh (fet.		<u>-</u> :	(11).	Max. Depth (ft):	
☐ Flow			Length (It):	90	Avg. Depth	(ft): 0.	Max. Depth (ft):	0.75
	Present?	ÆØ Yes	□ No		Estimated (ft³/sec):		
Downstre2	m View	Physical 1	Dimensions:					
☐ Riffle	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max, Depth (ft):	
Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):	·
₩ Pool	Width (ft):	21	Length (ft):	125	Avg. Depth	(ft): 1.2		2.0
☐ Flow	Present?	Ø Yes	□ No		Estimated (
ostrate*: (Thee					·	,	
	Cobble Cobble		dd up to 100%.) Gravel	% Sa		0 % Silt	60 % Mud/Clay	; O % Bedroc
			it of vegetation o					
	cteristics	*: (Mark a	ll that apply.)					
Odor:		Sewage	□ Musky	<u> </u>	hemical	Ď None	☐ Other:	
Color:		Clear	Æ Green	0.0	ray	□ Milky	☐ Other:	
Bottom Depo	osit:	Sludge	□ Solids	∮ Fi	ne sediments	□ None	☐ Other:	
Surface Depo	osit:	Oil	Scum	□ Fo	oam	□ №пе	☐ Other:	
nments: Pl	lease attac	ch additio	nal comments	: (includi	no informat	: £ :_	iterviews) to this form	
								l.
s information prehensive ur	i is not to b iderstandin	e used solei g of water	y for removal of	a recreati	onal use design	ation but rat	her is to provide a more	
							ner is to provide a more ded to directly influence a r that effect another use.	L
	gnea, her	eby affir	m to the best	of my k	nowledge, t	hat all info	ormation reported or	this UAA
ie undersig asheet is tr	ue and a	ccurate.						
2311CCC 13 14	uc anu a	ccurate.			Date:	6/23	1/05 ronmental S	



1028_004_DS



1028_001_Fishing Lure

